Claim Amendments

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) An XDSL system comprising:
- an impedance matching circuit in operative communication with a transmission line and an XDSL modem associated with a subscriber premises, the impedance matching circuit including a fixed impedance having a compromise impedance providing a substantial impedance match to a plurality of common impedance characteristics of copper transmission lines,

wherein the impedance matching circuit provides the substantial impedance match without testing different impedances.

- 2. (Currently Amended) The XDSL system of claim 1, wherein the compromise impedance eireuit-comprises a resistance of approximately 620 ohms in parallel with a series combination of a resistor of approximately 680 ohms and a capacitor of about 2200 picofarads.
- 3. (Original) The XDSL system of claim 1, wherein the compromise impedance has an impedance value that is approximately equal to a characteristic line impedance of the transmission line without a bridge tap.
- 4. (Original) The XDSL system of claim 1, wherein the compromise impedance has an impedance value that is approximately equal to a characteristic line impedance of the transmission line with a bridge tap.

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- 5. (New) An impedance matching circuit responsive to a transmission line and to a modem to provide an approximate impedance match to an impedance of the transmission line, the impedance matching circuit comprising:
 - a first fixed impedance including a first compromise value; and a second fixed impedance including a second compromise value; wherein at least one of the first compromise value and the second compromise value comprises an impedance value that relates to a combination of characteristics of transmission lines with and without bridge taps.
- 6. (New) The impedance matching circuit of claim 5, wherein the first compromise value and the second compromise value are approximately equal.
- 7. (New) The impedance matching circuit of claim 5, wherein the first compromise value comprises a value approximately equal to $620\Omega //(620\Omega + 2200 pF)$.
- 8. (New) The impedance matching circuit of claim 5, wherein the first fixed impedance and the second fixed impedance provide an approximate impedance match to a transmission line without testing impedances during setup.
- 9. (New) The impedance matching circuit of claim 5, wherein a value of the first fixed impedance varies responsive to a characteristic of the transmission line.
- 10. (New) The impedance matching circuit of claim 9, wherein the characteristics of the transmission line comprises a physical length of the transmission line.
- 11. (New) The impedance matching circuit of claim 9, wherein the characteristics of the transmission line comprises a line impedance of the transmission line with a bridge tap.
- 12. (New) The impedance matching circuit of claim 9, wherein the characteristics of the transmission line comprises a line impedance of the transmission line without a bridge tap.

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- 13. (New) A method comprising:
- applying an impedance matching circuit to a transmission line, the impedance matching circuit responsive to the transmission line and to a modem that is associated with a subscriber premises, the impedance matching circuit including a first fixed impedance having a first compromise impedance and a second fixed impedance having a second compromise impedance;
- approximating a line impedance of the transmission line using the first fixed impedance and the second fixed impedance to provide a compromise impedance match to the line impedance; and
- wherein the impedance matching circuit provides the compromise impedance match without testing different impedances.
- 14. (New) The method of claim 13, wherein at least one of the first compromise impedance and the second compromise impedance comprises an impedance value that relates to a combination of characteristics of transmission lines with and without bridge taps.
- 15. (New) The method of claim 13, wherein the first compromise impedance and the second compromise impedance are approximately equal.
- 16. (New) The method of claim 13, wherein the first compromise impedance comprises a value approximately equal to $620\Omega //(620\Omega + 2200 pF)$.
- 17. (New) The method of claim 13, wherein a value of the first fixed impedance varies responsive to a characteristic of the transmission line.
- 18. (New) The method of claim 17, wherein the characteristic of the transmission line comprises a physical length of the transmission line.
- 19. (New) The method of claim 17, wherein the characteristic of the transmission line comprises a line impedance of the transmission line with a bridge tap.

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20. (New) The method of claim 17, wherein the characteristic of the transmission line comprises a line impedance of the transmission line without a bridge tap.